



# State of Utah

## DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Robert L. Morgan  
Executive Director  
Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

October 24, 2003

Mr. Stan Wagner  
Ziegler Chemical and Mineral Corporation  
Little Bonanza Operations  
Star Route  
Vernal, Utah 84078

Subject: Amendment to Backfill Gilsonite Veins, Ziegler Chemical and Mineral, Ziegler Gilsonite Operations, M/047/013, Uintah County, Utah

Dear Mr. Wagner:

The Division of Oil, Gas and Mining has reviewed your proposal, received September 17, 2003, to fill an open cut portion of the Cowboy Vein with waste material from other mines. We encourage you to use waste material in this manner and conditionally approve this portion of your proposal. The conditions are:

1. Please provide the amendment formatted such that it can be included directly into your mine plan.
2. Identify any additional areas, such as roads, that may be affected by these operations.

You may proceed with filling the vein with these waste materials, but please respond to these conditions by November 12, 2003.

Your amendment also proposed that you be allowed to use fly ash from Deseret Generation and Transmission to fill the trenches. We have some concerns that this might have the potential to damage ground water quality, so before approving this portion of the amendment, we ask that you submit results from a leaching procedure test showing what contaminants might be expected to leach into the ground water. A test similar to the TCLP test could be done using ground water from the mine. This water is likely to have a higher pH than water normally used in this leaching procedure, so the leachates should be more representative of what would actually leach from the fly ash.

Stan Wagner  
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Please call me at 801-538-5286 or Paul Baker at 801-538-5261 if you have any questions about this approval. Thank you for your cooperation.

Sincerely,

A handwritten signature in black ink that reads "D. Wayne Hedberg". The signature is fluid and cursive, with the first name "D." and last name "Hedberg" clearly legible.

D. Wayne Hedberg, Permit Supervisor  
Permit Supervisor  
Division of Oil, Gas and Mining

DWH:PBB:jb  
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